

FILE 'HOME' ENTERED AT 07:22:19 ON 08 JAN 2004

=> file medline biosis caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.63	0.63

FILE 'MEDLINE' ENTERED AT 07:23:46 ON 08 JAN 2004

FILE 'BIOSIS' ENTERED AT 07:23:46 ON 08 JAN 2004  
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'CAPLUS' ENTERED AT 07:23:46 ON 08 JAN 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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=> s argon (5a) 275 or yag (4a) 266

L1 266 ARGON (5A) 275 OR YAG (4A) 266

=> s l1 and (DNA or nucleic or oligo?)

L2 7 L1 AND (DNA OR NUCLEIC OR OLIGO?)

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 5 DUP REM L2 (2 DUPLICATES REMOVED)

=> d 1-5 ti

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Light-induced crystal growth of macromolecules

L3 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 1

TI Native fluorescence detection of **nucleic** acids and **DNA**  
restriction fragments in capillary electrophoresis.

L3 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI THE LIGHT MICROSCOPE ON ITS WAY FROM AN ANALYTICAL TO A PREPARATIVE TOOL.

L3 ANSWER 4 OF 5 MEDLINE on STN

TI [Action of powerful ultrashort laser impulses on the permeability of the  
outer membrane of HeLa cells].  
Deistvie moshchnykh ul'trakorotkikh lazernykh impul'sov na pronitsaemost'  
naruzhnoi membrany kletok HeLa.

L3 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

DUPLICATE 2

TI UV RESONANCE RAMAN SPECTROSCOPY OF THE NUCLEOTIDES WITH 266 240 218 AND  
200-NANOMETER PULSED LASER EXCITATION.

=> d 2 bib ab

L3 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 1

AN 1993:160712 BIOSIS

DN PREV199395081762

TI Native fluorescence detection of **nucleic** acids and **DNA**  
restriction fragments in capillary electrophoresis.

AU Milofsky, Robert E.; Yeung, Edward S. [Reprint author]

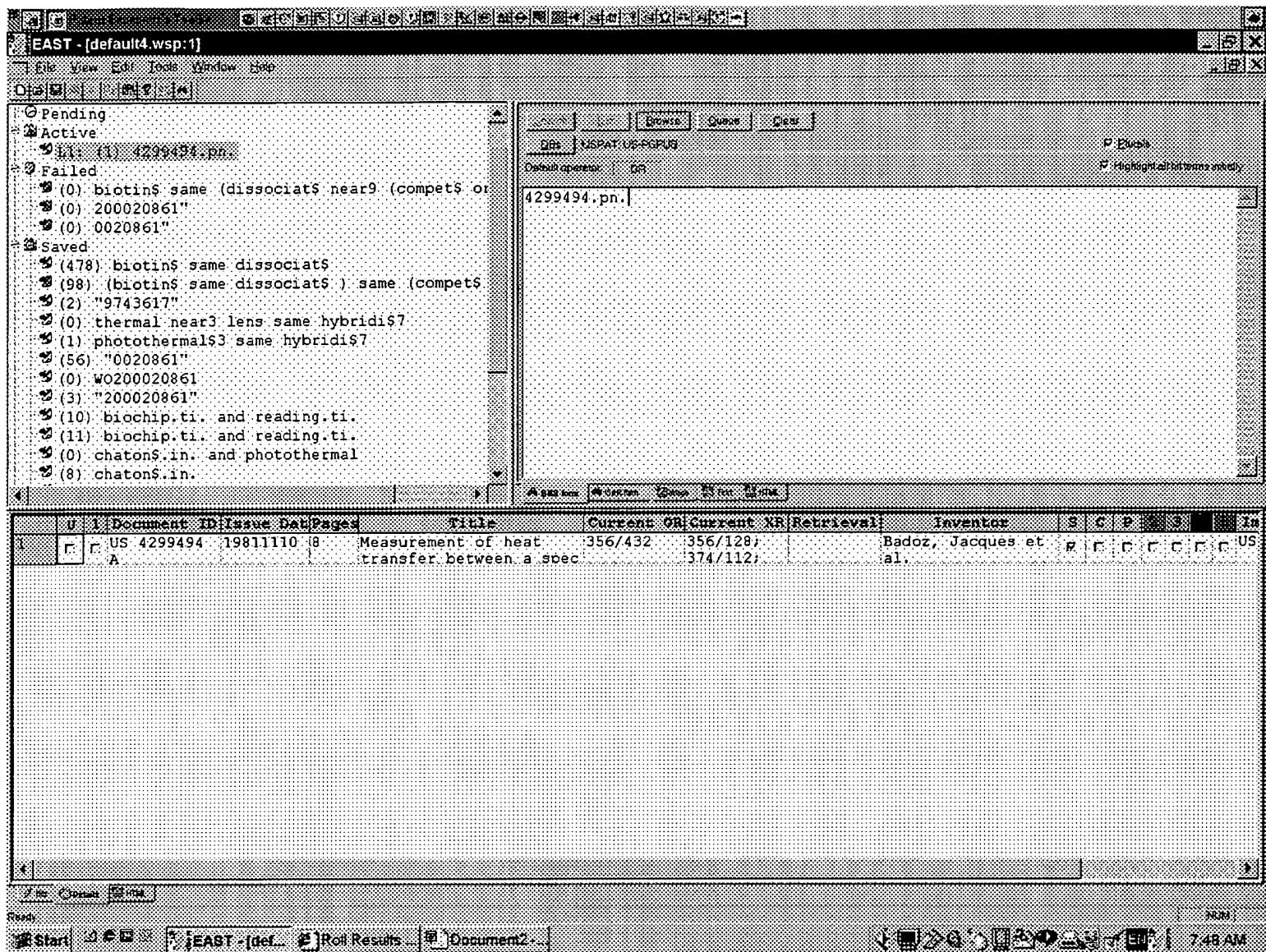
CS Dep. Chemistry, Ames Lab.-USDOE, Iowa State Univ., Ames, Iowa 50011, USA

SO Analytical Chemistry, (1993) Vol. 65, No. 2, pp. 153-157.  
CODEN: ANCHAM. ISSN: 0003-2700.  
DT Article  
LA English  
ED Entered STN: 31 Mar 1993  
Last Updated on STN: 31 Mar 1993  
AB A sensitive laser-induced fluorescence (LIF) detection scheme for native nucleic acids and DNA restriction fragments separated by capillary electrophoresis (CE) has been developed. The 275.4-nm line from an argon ion laser or the 248-nm line from a waveguide KrF laser is used to excite native fluorescence. Detection limits for guanosine and adenosine monophosphate (1.5 times 10<sup>-8</sup> and 5 times 10<sup>-8</sup> M, respectively) are up to 3 orders of magnitude lower than UV detection. Sensitivity for native fluorescence of DNA restriction fragments in gel-filled capillaries rivals that of UV absorption. The decrease in performance in gel-filled separations using LIF detection is caused by the high background associated with gel fluorescence, as well as gel quenching of the fluorescence emission. The development of gels exhibiting lower background fluorescence or off-column coupling should lead to significant improvements in sensitivity over UV detection. This novel and practical system enables for the first time, the sensitive detection of nucleic-acid-containing compounds without the need for fluorescence labeling.

=> FIL STNGUIDE			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	16.80	17.43	

FILE 'STNGUIDE' ENTERED AT 07:24:48 ON 08 JAN 2004  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Dec 19, 2003 (20031219/U)



d his full

(FILE 'HOME' ENTERED AT 08:18:14 ON 19 DEC 2003)

FILE 'MEDLINE, CAPLUS' ENTERED AT 08:18:37 ON 19 DEC 2003  
L1 5025 SEA PHOTOTHERMAL  
L2 7 SEA L1 AND HYBRIDI?  
D 1-7 TI  
D 3 BIB AB  
D 4-7 BIB AB  
L3 21 SEA L1 AND (DNA OR NUCLEIC OR OLIGONUCLEOTIDE#)  
L4 19 DUP REM L3 (2 DUPLICATES REMOVED)  
D 1-19 TI  
D 17 BIB  
D 17 BIB AB  
D 10 BIB AB  
D 5, 16, 17 BIB AB

FILE 'STNGUIDE' ENTERED AT 08:25:07 ON 19 DEC 2003

FILE 'MEDLINE, CAPLUS' ENTERED AT 08:30:15 ON 19 DEC 2003  
D 16, 17 TI SO

FILE 'STNGUIDE' ENTERED AT 08:30:15 ON 19 DEC 2003

INDEX '1MOBILITY, 2MOBILITY, ADISCTI, AEROSPACE, AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUASCI, AQUIRE, BABS, BIBLIODATA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, BLLDB, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEABA-VTB, ...' ENTERED AT 08:30:32 ON 19 DEC 2003

SEA PHOTOTHERMAL? AND (DNA OR NUCLEIC OR OLIGONUCLEOTIDE#)

-----  
1 FILE AEROSPACE  
2 FILE ANABSTR  
1 FILE BABS  
4 FILE BIOSIS  
1 FILE BIOTECHABS  
1 FILE BIOTECHDS  
1 FILE CANCERLIT  
15 FILE CAPLUS  
1 FILE CEN  
8 FILE COMPENDEX  
2 FILE DISSABS  
4 FILE EMBASE  
2 FILE ENERGY  
1 FILE ESBIOBASE  
10 FILE EUROPATFULL  
1 FILE IFIPAT  
1 FILE INIS  
1 FILE INPADOC  
6 FILE INSPEC  
1 FILE INSPHYS  
7 FILE JICST-EPLUS  
3 FILE LIFESCI  
6 FILE MEDLINE  
3 FILE NLDB  
10 FILE PASCAL  
5 FILE PATDPAFULL  
1 FILE PATOSEP  
1 FILE PATOSWO  
37 FILE PCTFULL  
1 FILE PHARMAML  
1 FILE PHIN

2 FILE PROMT  
15 FILE SCISEARCH  
1 FILE TEMA  
3 FILE TOXCENTER  
58 FILE USPATFULL  
2 FILE USPAT2  
4 FILE WPIDS  
4 FILE WPINDEX  
L5 QUE PHOTOTHERMAL? AND (DNA OR NUCLEIC OR OLIGONUCLEOTIDE#)  
-----  
D RANK  
  
FILE 'CAPLUS, SCISEARCH, EUROPATFULL, PASCAL, COMPENDEX, JICST-EPLUS, INSPEC, MEDLINE, PATDPAFULL, BIOSIS, EMBASE, WPIDS, LIFESCI, NLDB, TOXCENTER, ANABSTR, DISSABS, ENERGY, PROMT, USPAT2, AEROSPACE, BABS, BIOTECHDS, CANCERLIT, CEN, ESBIOBASE, IFIPAT, ...' ENTERED AT 08:34:01 ON 19 DEC 2003  
L6 127 SEA L5  
L7 80 DUP REM L6 (47 DUPLICATES REMOVED)  
D 1-80 TI  
D 1, 7, 73, 36, 64, 8, 21, 23 BIB AB  
  
FILE 'EUROPATFULL' ENTERED AT 08:41:13 ON 19 DEC 2003  
L8 10 SEA PHOTOTHERMAL? AND (DNA OR NUCLEIC OR OLIGONUCLEOTIDE#)  
D 1-10 TI

FILE HOME

FILE MEDLINE

FILE LAST UPDATED: 18 DEC 2003 (20031218/UP). FILE COVERS 1958 TO DATE.

On December 14, 2003, the 2004 MeSH terms were loaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nih.gov/pubs/yechbull/nd03/nd03\\_mesh.html](http://www.nih.gov/pubs/yechbull/nd03/nd03_mesh.html) for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CAPLUS

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FILE COVERS 1907 - 19 Dec 2003 VOL 139 ISS 26  
FILE LAST UPDATED: 18 Dec 2003 (20031218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Dec 12, 2003 (20031212/UP).

FILE STNINDEX

FILE SCISEARCH  
FILE COVERS 1974 TO 12 Dec 2003 (20031212/ED)

FILE EUROPATFULL  
FILE LAST UPDATED: 18 DEC 2003 <20031218/UP>  
MOST RECENT EPO WEEK: 200351 <200351/EW>  
FILE COVERS 1987 TO DATE

>>> PRICES HAVE BEEN CHANGED AS OF AUGUST 1, 2003 - SEE NEWS <<<

>>>>The LIMIT feature has been removed <<<<

FILE PASCAL  
FILE LAST UPDATED: 12 DEC 2003 <20031212/UP>  
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE  
IN THE BASIC INDEX (/BI) FIELD <<<

FILE COMPENDEX  
FILE LAST UPDATED: 15 DEC 2003 <20031215/UP>  
FILE COVERS 1970 TO DATE.

<<< SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN  
THE BASIC INDEX >>>

FILE JICST-EPLUS  
FILE COVERS 1985 TO 15 DEC 2003 (20031215/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED  
TERM (/CT) THESAURUS RELOAD.

FILE INSPEC  
FILE LAST UPDATED: 16 DEC 2003 <20031216/UP>  
FILE COVERS 1969 TO DATE.

<<< SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN  
THE BASIC INDEX >>>

FILE PATDPAFULL  
FILE LAST UPDATED: 18 DEC 2003 <20031218/UP>  
MOST RECENT UPDATE WEEK: 200351 <200351/EW>  
FILE COVERS 1987 TO DATE

FILE BIOSIS  
FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 December 2003 (20031217/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE  
FILE COVERS 1974 TO 11 Dec 2003 (20031211/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE WPIDS

FILE LAST UPDATED: 16 DEC 2003 <20031216/UP>  
MOST RECENT DERWENT UPDATE: 200381 <200381/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> NEW WEEKLY SDI FREQUENCY AVAILABLE --> see NEWS <<<

>>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY <<<

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
PLEASE VISIT:

[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE  
<http://thomsonderwent.com/coverage/latestupdates/> <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER  
GUIDES, PLEASE VISIT:

<http://thomsonderwent.com/support/userguides/> <<<

FILE LIFESCI

FILE COVERS 1978 TO 16 Dec 2003 (20031216/ED)

FILE NLDB

FILE COVERS 1988 TO 19 DEC 2003 (20031219/ED)

FILE TOXCENTER

FILE COVERS 1907 TO 16 Dec 2003 (20031216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

TOXCENTER has been enhanced with new files segments and search fields.  
See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nih.gov/pubs/yechbull/nd03/nd03\\_mesh.html](http://www.nih.gov/pubs/yechbull/nd03/nd03_mesh.html) for a description on changes.

FILE ANABSTR

FILE LAST UPDATED: 16 DEC 2003 <20031216/UP>  
FILE COVERS 1980 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE IN  
THE BASIC INDEX (/BI) AND CHEMICAL NAME (/CN) FIELDS <<<

FILE DISSABS

FILE COVERS 1861 TO 30 OCT 2003 (20031030/ED)

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KIND OR LOST PROFITS OR OTHER CLAIMS RELATED TO THE LICENSED MATERIALS OR THEIR USE.

FILE ENERGY  
FILE LAST UPDATED: 6 DEC 2003 <20031206/UP>  
FILE COVERS 1974 TO DATE.

<<< SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN THE BASIC INDEX >>>

FILE PROMT  
FILE COVERS 1978 TO 19 DEC 2003 (20031219/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 18 Dec 2003 (20031218/PD)  
FILE LAST UPDATED: 18 Dec 2003 (20031218/ED)  
HIGHEST GRANTED PATENT NUMBER: US6665862  
HIGHEST APPLICATION PUBLICATION NUMBER: US2003233204  
CA INDEXING IS CURRENT THROUGH 18 Dec 2003 (20031218/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Dec 2003 (20031218/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2003  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2003

USPAT2 is a companion file to USPATFULL. USPAT2 contains full text of the latest US publications, starting in 2001, for the inventions covered in USPATFULL. USPATFULL contains full text of the original published US patents from 1971 to date and the original applications from 2001. In addition, a USPATFULL record for an invention contains a complete list of publications that may be searched in standard search fields, e.g., /PN, /PK, etc.

USPATFULL and USPAT2 can be accessed and searched together through the new cluster USPATALL. Type FILE USPATALL to enter this cluster.

Use USPATALL when searching terms such as patent assignees, classifications, or claims, that may potentially change from the earliest to the latest publication.

FILE AEROSPACE

FILE COVERS 1962 TO 12 Nov 2003 (20031112/ED)

FILE BABS  
FILE LAST UPDATED: 19 NOV 2003 <20031119/UP>  
FILE COVERS 1980 TO DATE.

FILE BIOTECHDS  
FILE LAST UPDATED: 18 DEC 2003 <20031218/UP>

>>> USE OF THIS FILE IS LIMITED TO BIOTECH SUBSCRIBERS <<<

>>> NEW CLASSIFICATION SYSTEM FROM 2002 ONWARDS - SEE HELP CLA <<<

FILE CANCERLIT  
FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the

MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CEN

FILE COVERS 1991 TO 12 Jan 2001 (20010112/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

As of January 15, 2001, the American Chemical Society (ACS) is no longer updating the CEN database on STN. CEN will continue to be available on STN as a static file.

FILE ESBIOBASE

FILE LAST UPDATED: 16 DEC 2003 <20031216/UP>  
FILE COVERS 1994 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN  
/CC, /ORG, AND /ST <<<

FILE IFIPAT

FILE COVERS 1950 TO PATENT PUBLICATION DATE: 11 Dec 2003 (20031211/PD)  
FILE LAST UPDATED: 12 Dec 2003 (20031212/ED)  
HIGHEST GRANTED PATENT NUMBER: US6662368  
HIGHEST APPLICATION PUBLICATION NUMBER: US2003229929  
UNITERM INDEXING IS AVAILABLE IN THE IFIUDB FILE  
UNITERM INDEXING LAST UPDATED: 16 Dec 2003 (20031216/UP)  
INDEXING CURRENT THROUGH PAT PUB DATE: 30 Jan 2003 (20030130/PD)

IFIPAT has been reloaded. See HELP RLOAD for details.

FILE INPADOC

FILE LAST UPDATED: 11 DEC 2003 <20031211/UP>  
12 DEC 2003 <20031212/UPLS>  
MOST RECENT INPADOC WEEK: 200350 <200350/EW>  
FILE COVERS 1968 TO DATE.

LEGAL STATUS REBUILD ----> SEE NEWS OR  
<http://www.stn-international.de/stndatabases/details/LSR.pdf>

>>> FOR STATISTIC OF CURRENT WEEK'S NEW ENTRIES,  
ENTER HELP UPS <<<

>>> STATISTIC FOR UPDATES OF PUBLICATION/PATENT KIND CODES  
A. SORTED BY COUNTRY:  
<http://www.stn-international.de/stndatabases/details/inpadoc/fkdl>  
B. SORTED BY DATE:  
<http://www.stn-international.de/stndatabases/details/inpadoc/fkdl>

<<<

>>> THE BASIC INDEX NOW CONTAINS SINGLE TERMS FROM THE  
TITLE (/TI) AND ABSTRACT FIELDS (/AB) AND ALLOWS  
SIMULTANEOUS LEFT AND RIGHT TRUNCATION (SLART) <<<

>>> FOR CHANGES IN INPADOC ----> SEE HELP CHANGE  
(LAST UPDATED SEP 9, 2003) <<<

FILE INSPHYS

FILE LAST UPDATED: 23 DEC 94 <941223/UP>  
FILE COVERS 1979 - 1994

>>> INSPHYS THESAURUS AVAILABLE IN FIELD /CT <<<

FILE PATOSEP

FILE LAST UPDATED: 12 DEC 2003 <20031212/UP>

FILE PATOSWO

FILE LAST UPDATED: 12 DEC 2003 <20031212/UP>

FILE PHARMAML

FILE LAST UPDATED: 18 DEC 2003 <20031218/UP>

FILE COVERS 1992 TO DATE

<<< DISPLAY PRICES FOR THE MOST CURRENT 4-WEEKS INFORMATION  
DIFFER FROM THE PREVIOUS ONES ==> see HELP COST >>>

FILE PHIN

FILE COVERS 1980 TO 19 DEC 2003 (20031219/ED)

FILE TEMA

FILE LAST UPDATED: 16 DEC 2003 <20031216/UP>

FILE COVERS 1990 TO DATE

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN  
THE BASIC INDEX <<<

=>